Form No. 17 — Original/Duplicate/Triplicate

Intermd final Bill

CONTRACT CERTIFICATE

Reference paras 158 & 170

No

Division: Yelahanka

Bills received No

YNK-DGR No. 208
Date 31-7-14

Sheduled Docket No

Sub division: Yelahanka New Town — Date

Sub-Divisional / Divisional — Cash book Vr No

Head of account — Date

Name of work (as per sanctioned estimate) :-

NAME OF WORK :Improvements of balance roads and drilling of borewells in G Ramaiah layout in Attur ward no:03 of Yelahanka Satell Town Sub Division

Work Code:

Name of contractor and full address :-

Reference to agreement No :-

Technical Manager (west)

Estimated cost : 39.00 lakh — W.O.No: 1037AA-

Certified that the measurments were taken by me on 31/7/14 and recorded on pages 17101 to 17150 measurment book No 1038 and the work is satisfactorily executed by the contractor.

Signature of contractor

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Certified that the measurments were taken by me on 31/7/14 and recorded correct.The work is satisfactorily executed

Asst. Engineer

Certified that the quantities of materials shown in column 3 of account II have been actually brought to site of work and the contractor has not previously received any advance on the same security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office

Sub-Divisional Officer

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within
2) Deduct amount to be held in reserve being----Percent Rs----------%----------Balance---
3)
4) Deduct payments
   a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S.D No----------Amount
   b) Cost of payments/slores or other materials supplied now made recovery of
   Amount paid on this bill by cheque/cash
5) Balance being unpaid value of work done held in reserve — Total
6) Deduct cash of advance made on divisional/sub divisional cash book
7) Net amount due to or from contractor.

UN ADJUSTED ITEMS

8) Advance to contractor for materials to site(as detailed within)
9) Value of govornment materials supplied

TOTAL AMOUNT UN-ADJUSTED

Total	3868455
	822579
	3034436
Bill	3868435
	197260
	80898
	1113411
	30336
	3036
	142345
	4500
	549736
	2484780
	3034516

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum

(in final settlement of all demand)

Witness

1)

2)

Reciept Stamp

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Signature of contractor

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

dated

Cash Rs----------

Date

Initials of officer making payment

Audited & Admitted for Rs 3034516/-

Date 2484780/-

Executive Engineer

and Rs 549736/- by adjustment

Asst. Engineer
Yelahanka Division
BBMP

Exe. Engineer
Yelahanka Division

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	2	3	4	5	6	7	8	9	10
1	KSRRD 500-2:Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/ or compressed air to recieve hiluminous treatment including cost of all materials labour, HOM machineries, complete as per specifications, MORTH	cum			3312.00	10.53	34875.00	3312.00	34875.00
2	KSRB 2-1.1:Earthwork in surface excavation in hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, exenvated surface levelled	cum			331.20	126.36	41850.00	331.20	41850.00
3	KSRRB M400-17.Providing, laying, spreading and compacting graded stones aggregate to Wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per	cum			761.76	1121.04	853963.00	761.76	853963.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
4	KSRRB M500-6:Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 Kg/sqm using macchanical means complete as per specifications. Morth Specification, No. 502(P-175, II,21.6)	Sqm			1140.00	44.28	50479.00	1140.00	50479.00
5	KSRRB 500-10:Tack coat:Providing and applying tack coat with bitumen emulsion pressure disiributor at the rate of 0.20 Kg per sqm on the prepared bituminous/ granular surface cleaned with mechanical broom, complete as per specifications. MORTH Specification No.503, using	Sqm			3312.00	11.99	39711.00	3312.00	39711.00
6	KSRRB M500-13: Providing and laying bituminous macadam 50mm thick with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder, transported to site, laid over a previously prepared	cum			24.84	6667.92	165631.00	24.84	165631.00
7	KSRRB M500-19 Providing and laying bituminous concrete 30-45mm compacted thickness (Grading I) with 6% bitumen 80/100 with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to	cum			132.48	11452.32	1517203.00	132.48	1517203.00

Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
		Qty	Cost	Qty	Rate	Amount	Qty	Cost
8 KSRRB MI00-1 Loading and unloading of stone boulder/stone aggregates/ sand/,kanker/moorum. KSRRB MI00-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications, MORTH	cum			331.20	94.82	31404.00	331.20	31404.00
9 Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Wate in the vicinity, its quality(1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging technical personal and labour required etc., as per with all lead and lift complete as per specification as per direction of Engineer incharge.	Each DW	1	1900.00				1.00	1900.00

Total Rs —

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
10	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) 29/LI PRED SR 2006-07 and as per with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr							
11	0 to 50 m		50	14350.00				50.00	14350.00
12	50 to 100 m		50	18950.00				50.00	18950.00
13	100 to 150 m		50	21100.00				50.00	21100.00
14	150 to 200 m		50	23200.00				50.00	23200.00
15	200 to 250 m		50	25650.00				50.00	25650.00
16	250 to 300 m		50	27500.00				50.00	27500.00
17	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other end with a plastic protection end (including of all taxes) as per corrigendum with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr	50	65250.00				50.00	65250.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
18	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr	12 24	13580 18107.28				12 24.00	13580 18107.28
19	Providing and fixing 175mm Borewell Cap with all lead and lift complete as per specification as per direction of Engineer incharge.	Each	1	695.00				1.00	695.00
20	Supply and delivery at site brand New texmo/ innovat/ Labh/ Sabar / Atalanta/ Calamat/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CI pump close coupled by meaans of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3PH,, 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction, casing suction strainers said guard Non return valve etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00 HP 20 stage. SE RDED Approved Rate with all lead and lift complete as per specification as per direction of Engineer incharge.	No							
21	12.50 hp 20 stge		1	44000.00				1.00	44000.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
22	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threafles at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. 50 mm dia including Collar Heavy Class with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr	280	116200.00				280.00	116200.00
23	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr	580	87580.00				580.00	87580.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
24	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap, Cable clips with bolts, nuts, valves gauges etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year with all lead and lift complete as per specification as per direction of Engineer incharge.	No	1	3000.00				1.00	3000.00
25	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces nad fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 30/ I No. 2/I KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No	1	285.00				1.00	285.00
26	Supplying of LTUG cable having aluminium condunor PVC insulated sheathed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 67/ I No. 10(d) 4 core 16 Sqmm KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr	29 30	4350 4500.00				29 30.00	4350 4500.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
27	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, P-68 /I.No.11a) KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr	30	240.00				30.00	240.00
28	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 P No. 68/ I, No. 12-d KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr	25	1500.00				25.00	1500.00
29	Supplying and fixing of Class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 69/ I No.15-A KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr	10	2400.00				10.00	2400.00
30	Supplying and fixing L.T. cast iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 69/ I No. 16-b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No	1	260.00				1.00	260.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
31	Supplying, fixing, wiring, earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal proportion of soil and charcoal 150 mm around the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 through holes of 122 mm dia, (PWD Electrical SR-1999-2000, P-66, I.No.7) KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No	1	1950.00				1.00	1950.00
32	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete..... P No. 30/1 No 3b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No	2	240.00				2.00	240.00
33	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.with all lead and lift complete as per specification as per direction of Engineer incharge.	No	1	1114.06				1.00	1114.06

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
34	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ 1. with all lead and lift complete as per specification as per direction of Engineer incharge.	No	1	201.40				1.00	201.40
35	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete with all lead and lift complete as per specification as per direction of Engineer incharge.	No	4	320.00				4.00	320.00
36	Supplying shunt capacitor confirming to IS 2834, 3 phase 400/400 volts grade for power factor improvement of rotaining machinary. capacitorin KVAR rating Nos. 2KVAR capacity with all	No	1	350.00				1.00	350.00
37	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing material wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications with all lead and lift complete as per specification as per direction of Engineer incharge.	no	1	1000.00				1.00	1000.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.35 P.No. 39, I. No. 39B KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Sqm.e m	23400	7722.00				23400.00	7722.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
39	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum-control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph. 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 15HP to 30 HP Star Delta Starter SERDED Rate with all lead and lift complete as per specification as per direction of Engineer incharge.	No	1	11000.00				1.00	12000.00
40	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.3, No. 5/ Item No. 2.4/ PWD SR 2010-11 with all lead and lift complete as per specification as per direction of Engineer incharge.	Cum	450	100647.00				450.00	100647.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
41	Providing and instalation at site of works P.V.C Pipes including cost of pipes and specials and including lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing, encasing the pipe around to a depth Not less than 15cm with grave or selected earth avalabile from the excavation Etc., Page No.3 item No.4.2 PRE SR2008 09. with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr	2000	1170000.00				1000.00	1170000.00
42	KSRD 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mm, and lift upto 1.5m, including cost of all labour complete as per with all lead and lift complete as per specification as per direction	Rmtr	450	26712.00				450.00	26712.00
43	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. with all lead and lift complete as per specification as per direction of Engineer incharge.	Each	3	6328.20				3.00	6328.20
	DESCOM charges			25000.00					25000.00
	TOTAL			776251.94			2735116.00		3511367.94
	KRIDL chanrges 10%			85387.71			300862.76		386250.47
	G TOTAL			861639.65			3035978.76		3897618.41

Asst. Engineer
Ward No:03

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP, Bangalore-64.